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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-28-68** **Date: 15/11/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	151.28 X 150.74 X 150.44	22805	**8.964**	429.6	18.8	18.6
2	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	149.27 X 150.65 X 150.92	22488	**8.191**	422.8	18.8	
3	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	150.74 X 151.64 X 151.92	22859	**8.320**	413.9	18.1	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Asstt.Ex.N.D
AE(NZ)

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro
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Date.....
BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 06/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	151.23 X 150.09 X 151.38	22697	**8.801**	532.2	23.4	23.1
2	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	150.07 X 149.07 X 149.62	22371	**8.893**	499.1	22.3	
3	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	149.71 X 149.75 X 150.75	22419	**8.994**	528.6	23.6	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
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Asst.Engg. N.D
AE(Wd)

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 15/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Nam : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	149.53 X 151.39 X 151.75	22637	**8.964**	408.7	18.1	
2	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	149.32 X 149.78 X 150.96	22364	**8.191**	413.9	18.5	18.3
3	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	151.60 X 150.28 X 149.24	22783	**8.320**	419.9	18.4	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

AE(Civil)

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Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 06/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	149.65 X 150.79 X 149.30	22565	**8.801**	525.4	23.3	23.0
2	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	151.25 X 149.53 X 150.25	22617	**8.893**	507.8	22.5	
3	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	149.63 X 150.47 X 149.75	22515	**8.994**	526.7	23.4	

Note:
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Abhilash.N.D
AE(L2)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP Bangalore

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-12-28-68** **Date: 23-10-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-10-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-10-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	589	589	3.9	96.1	90-100
3	20 mm	4898	5487	36.6	63.4	30-70
4	10 mm	7143	12630	84.2	15.8	10-35
5	4.75 mm	2118	14748	98.3	1.7	0-5
6	Pan	252	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-12-28-68** **Date: 23-10-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.38	_

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-12-28-68** **Date: 23-10-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-10-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	198	198	4.0	96.0	90-100
3	10 mm	3150	3348	67.0	33.0	25-55
4	4.75 mm	1457	4805	96.1	3.9	0-10
5	Pan	195	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-12-28-68** **Date: 23-10-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.44	_
5	Bulk Density(Compacted) (Kg/l)	1.5	_
6	Water Absorption(%)	0.27	_
7	Aggregate crushing Value(%)	22.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
Gnanat Bangalore Mahanagara Palike
Bangalore-560 092

End of Report

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-12-28-68** **Date: 23-10-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 18-10-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-12-28-68** **Date: 23-10-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-12-28-68** **Date: 23-10-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-10-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.63	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-12-28-68**	**Date: 16-11-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.	
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.	
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-10-19	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	19-10-19	
Environmental Conditions during test	:	Temperature: Humidity:	26°C 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore - 560 092

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Certificate No.: TC-5548

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-12-28-68** **Date: 23-10-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	22-10-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:
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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 02/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-10-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/10/2019	02/11/2019	150.42 X 151.32 X 150.52	22762	**8.890**	280.8	12.3	12.4
2	PCC	M15	25/10/2019	02/11/2019	150.87 X 150.82 X 149.43	22755	**8.809**	285.1	12.5	
3	PCC	M15	25/10/2019	02/11/2019	150.82 X 150.29 X 151.27	22666	**8.327**	279.8	12.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2019-12-28-68 **Date: 22/11/2019**
stomer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
ddress	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-10-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/10/2019	22/11/2019	149.91 X 151.60 X 150.13	22727	**8.967**	405.5	17.8	17.8
2	PCC	M15	25/10/2019	22/11/2019	149.33 X 150.38 X 149.70	22455	**8.643**	396.4	17.7	
3	PCC	M15	25/10/2019	22/11/2019	149.37 X 149.58 X 151.25	22342	**8.709**	399.7	17.9	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 09/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/11/2019	09/11/2019	149.02 X 151.35 X 150.68	22554	**8.964**	424.0	18.8	18.6
2	Drain Bottom Slab Concrete	M20	02/11/2019	09/11/2019	150.81 X 151.59 X 151.01	22861	**8.191**	430.8	18.8	
3	Drain Bottom Slab Concrete	M20	02/11/2019	09/11/2019	149.29 X 151.75 X 150.90	22654	**8.320**	411.0	18.1	

Note:
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AE(L2)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 30/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/11/2019	30/11/2019	149.60 X 149.95 X 150.09	22432	**8.801**	520.9	23.2	23.0
2	Drain Bottom Slab Concrete	M20	02/11/2019	30/11/2019	151.70 X 151.68 X 150.73	23010	**8.893**	520.6	22.6	
3	Drain Bottom Slab Concrete	M20	02/11/2019	30/11/2019	151.77 X 151.35 X 151.34	22970	**8.994**	530.4	23.1	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 09/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/11/2019	09/11/2019	151.48 X 151.03 X 149.79	22879	**8.964**	434.6	19.0	18.5
2	Drain Bottom Slab Concrete	M20	02/11/2019	09/11/2019	150.12 X 150.42 X 151.00	22581	**8.191**	418.4	18.5	
3	Drain Bottom Slab Concrete	M20	02/11/2019	09/11/2019	150.32 X 149.02 X 151.55	22401	**8.320**	405.8	18.1	

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Quality Manager

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Page 1/1
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 30/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/11/2019	30/11/2019	150.32 X 149.09 X 151.31	22412	**8.801**	524.4	23.4	23.3
2	Drain Bottom Slab Concrete	M20	02/11/2019	30/11/2019	151.06 X 149.18 X 149.23	22535	**8.893**	513.8	22.8	
3	Drain Bottom Slab Concrete	M20	02/11/2019	30/11/2019	149.85 X 150.77 X 150.74	22593	**8.994**	538.8	23.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Page 1/1
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-28-68** **Date: 11/11/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	150.76 X 150.80 X 149.58	22734	**8.964**	413.1	18.2	18.5
2	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	150.62 X 151.28 X 151.80	22786	**8.191**	427.2	18.7	
3	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	151.07 X 150.75 X 150.78	22775	**8.320**	422.2	18.5	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

AE(L7)

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Date.....
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 02/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	151.39 X 151.96 X 150.73	23006	**8.801**	536.0	23.3	23.4
2	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	151.17 X 151.59 X 151.58	22917	**8.893**	524.4	22.9	
3	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	150.54 X 150.34 X 150.06	22631	**8.994**	540.9	23.9	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R RUDRAPRASAD
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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-28-68** **Date: 11/11/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	150.03 X 149.99 X 150.42	22503	**8.964**	422.5	18.8	18.6
2	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	149.22 X 150.51 X 149.71	22458	**8.191**	419.7	18.7	
3	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	149.85 X 150.13 X 150.33	22497	**8.320**	409.8	18.2	

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FOR CIVIL Pro.

R. Rudraprasad

R RUDRAPRASAD
Authorized Signatory
Technical Manager

N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Rajbat Bangalore Chandrapura Palike
Bangalore-560 002

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Sig.....
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 02/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	151.11 X 150.90 X 151.93	22804	**8.801**	542.6	23.8	23.2
2	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	151.99 X 150.95 X 151.67	22943	**8.893**	504.8	22.0	
3	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	150.55 X 151.45 X 149.17	22802	**8.994**	545.0	23.9	

Note:
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Ashly. N.D
AE (Mech)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-28-68** **Date: 11/11/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	151.87 X 150.04 X 150.35	22787	**8.964**	421.8	18.5	18.4
2	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	151.79 X 150.21 X 150.36	22800	**8.191**	411.4	18.0	
3	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	150.61 X 149.88 X 149.09	22574	**8.320**	421.8	18.7	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Date.....
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 02/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	150.26 X 150.32 X 149.41	22587	**8.801**	538.9	23.9	23.2
2	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	149.52 X 151.18 X 151.04	22604	**8.893**	501.6	22.2	
3	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	151.07 X 149.19 X 149.66	22537	**8.994**	531.0	23.6	

Note:
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AE(w-7)

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 11/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	151.07 X 151.92 X 150.02	22952	**8.964**	418.8	18.2	18.5
2	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	151.16 X 149.80 X 150.49	22644	**8.191**	417.9	18.5	
3	Drain Bottom Slab Concrete	M20	04/11/2019	11/11/2019	149.74 X 150.35 X 151.10	22513	**8.320**	422.0	18.7	

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Ashalf. N.D
AE(Lab)

Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore - 560 092

Page 1/1
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R. Rudraprasad
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-28-68** **Date: 02/12/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	150.06 X 151.81 X 151.68	22781	**8.801**	544.5	23.9	23.4
2	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	149.01 X 151.29 X 151.00	22545	**8.893**	517.7	23.0	
3	Drain Bottom Slab Concrete	M20	04/11/2019	02/12/2019	149.92 X 151.71 X 151.18	22744	**8.994**	530.5	23.3	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-28-68** **Date: 15/11/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	151.55 X 151.75 X 150.40	22997	**8.964**	427.5	18.6	18.5
2	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	150.79 X 151.02 X 150.23	22772	**8.191**	422.1	18.5	
3	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	151.04 X 150.80 X 150.71	22776	**8.320**	418.7	18.4	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Ar LNCF. N.D
AE(W21)

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Date.....
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 06/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	151.41 X 149.02 X 150.17	22564	**8.801**	525.4	23.3	23.3
2	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	150.84 X 149.22 X 151.06	22507	**8.893**	516.2	22.9	
3	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	151.80 X 149.91 X 149.54	22756	**8.994**	536.8	23.6	

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Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/11/2019

Lab ID	:	**CP-2019-12-28-68**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	150.91 X 151.56 X 151.24	22871	**8.964**	421.7	18.4	18.4
2	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	151.48 X 149.77 X 151.22	22686	**8.191**	428.0	18.9	
3	Drain Side Wall Concrete	M20	08/11/2019	15/11/2019	150.19 X 151.83 X 151.65	22803	**8.320**	410.6	18.0	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

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R RUDRAPRASAD
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A.N.D
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/12/2019

Lab ID	:	**CP-2019-12-28-68**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	149.81 X 149.73 X 150.69	22431	**8.801**	533.5	23.8	23.2
2	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	151.63 X 151.24 X 150.53	22933	**8.893**	509.7	22.2	
3	Drain Side Wall Concrete	M20	08/11/2019	06/12/2019	149.78 X 150.57 X 150.64	22552	**8.994**	534.8	23.7	

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Assistant E... Engineer
Kodige... on
Bruhat Ba... Palike
Ba...

Ashwin. N.D
AE(...)

CIVIL Pro
Sig.....
Date.....
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 13/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	06/11/2019	13/11/2019	150.38 X 150.72 X 149.70	22665	**8.964**	428.0	18.9	18.7
2	Drain Side Wall Concrete	M20	06/11/2019	13/11/2019	150.77 X 150.20 X 151.16	22647	**8.191**	415.5	18.3	
3	Drain Side Wall Concrete	M20	06/11/2019	13/11/2019	151.68 X 151.96 X 151.18	23049	**8.320**	433.1	18.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer Kodigehalli Sub Division Bruhat Bangalore Mahanagara Palike Bangalore - 560 092

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 04/12/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	06/11/2019	04/12/2019	150.29 X 150.24 X 150.86	22580	**8.801**	520.7	23.1	23.0
2	Drain Side Wall Concrete	M20	06/11/2019	04/12/2019	149.43 X 151.94 X 151.06	22704	**8.893**	510.8	22.5	
3	Drain Side Wall Concrete	M20	06/11/2019	04/12/2019	151.88 X 151.56 X 150.21	23020	**8.994**	540.6	23.5	

Note:

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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AE(NS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 13/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	06/11/2019	13/11/2019	151.89 X 149.74 X 151.73	22744	**8.964**	421.7	18.5	18.3
2	Drain Side Wall Concrete	M20	06/11/2019	13/11/2019	151.48 X 151.73 X 151.58	22984	**8.191**	417.4	18.2	
3	Drain Side Wall Concrete	M20	06/11/2019	13/11/2019	150.18 X 149.98 X 151.48	22523	**8.320**	407.1	18.1	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-28-68** **Date: 04/12/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.
Agency	:	M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	06/11/2019	04/12/2019	151.23 X 150.24 X 150.21	22721	**8.801**	535.0	23.5	23.3
2	Drain Side Wall Concrete	M20	06/11/2019	04/12/2019	149.04 X 149.43 X 150.78	22271	**8.893**	507.3	22.8	
3	Drain Side Wall Concrete	M20	06/11/2019	04/12/2019	151.41 X 149.09 X 149.21	22573	**8.994**	534.3	23.7	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 02/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-10-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/10/2019	02/11/2019	149.29 X 149.37 X 149.92	22299	**8.890**	288.2	12.9	12.6
2	PCC	M15	25/10/2019	02/11/2019	150.77 X 150.24 X 150.06	22652	**8.809**	280.7	12.4	
3	PCC	M15	25/10/2019	02/11/2019	149.21 X 150.36 X 149.89	22435	**8.327**	277.2	12.4	

Note:
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AE(Cert)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-28-68** **Date: 22/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains in Munigurappa Layout in Ward no 07 Byatarayanapura in Kodigehalli Sub Division.

Agency : M/s.Nandi Enterprises, Prop.Sri.P Vijaya Babu, # 1504, 4th C Main, 2nd Stage, WOC Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/92/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-10-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/10/2019	22/11/2019	149.72 X 151.99 X 149.40	22757	**8.967**	403.4	17.7	
2	PCC	M15	25/10/2019	22/11/2019	150.59 X 150.48 X 150.90	22660	**8.643**	388.8	17.2	17.5
3	PCC	M15	25/10/2019	22/11/2019	150.77 X 151.97 X 151.45	22913	**8.709**	403.2	17.6	

Note:

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Quality Manager

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